

# CE-293 Page 1 of 2 Pennchem<sup>™</sup> 97 Membrane

**INSTALLATION GUIDANCE** 

#### **SELECTION & SPECIFICATION DATA**

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Туре	Urethane polymer membrane	Reference Specifications	CES-326 and CES-3 97 Membrane on s	334 Installation of Pennchem steel and concrete.	
Description	Pennchem 97 Membrane is a 2-component trowelable liquid applied elastomeric urethane membrane.	Installation Conditions	handling at 70°F (2 should be acclima	nbrane is formulated for ideal 21°C). Materials and substrate ted to the air temperature	
Uses	Chemical resistant membrane for protecting concrete and steel in the following applications: • Under chemical resistant masonry		•	n, and the air temperature n 50°F (10°C) and 90°F (32°C) and cure.	
	<ul> <li>Under polymer concrete</li> <li>Under brick linings in bleach towers</li> <li>Under brick linings in ClO<sub>2</sub> towers</li> <li>Waterproofing</li> <li>Crack-bridging base coat</li> <li>Secondary containment lining</li> </ul>		SSPC- SP13 is sugc clean and dry with grit sandpaper. Pri required for adhes Penntrowel™ Epox	crete in accordance with gested. Concrete should be a profile similar to a 100-150 mer on concrete is not ion but the use of ty Primer or Novocoat™ aler is suggested to minimize	
Features	<ul> <li>Good resistance to acids and alkalis</li> <li>Flexible from -40°F (-40°C) to 160°F (71°C)</li> <li>Crack-bridging</li> <li>Easy to mix and trowel apply</li> <li>High bond strength</li> <li>Spark testable on steel substrates</li> </ul>		Preparation of stee 10 is suggested. Pr but the use of Pen	oncrete substrates. el in accordance with SSPC-SP imer is not required on steel nguard™ HP Epoxy Primer is mize re-rusting of freshly	
Limitations	Not for use beyond its chemical resistance or thermal capabilities. Consult ErgonArmor with specific questions.	Ratio	1.9 gallons resin: 4 units only.	199 grams hardener. Mix full	
		Mixing	the bottle of harded discard surface ski resin to loosen it. C and pour it slowly thoroughly, movin around the sides o	kits. Open the pail and remove ener and divider. Remove and n on resin if present. Mix the Dpen the bottle of hardener into the resin. Mix very Ig the mix blade up, down and f the pail until a uniform color e hardener is fully dispersed.	
		Application	flat trowel to achie two passes, wet or first coat has dried	onto prepared substrate with a eve desired thickness. Apply in a wet, to minimize pinholes. If , abrade the surface to applying the second coat.	
		Work Life	45-60 minutes at 70°F (21°C)		
			Work life is shorter longer at cooler te	at higher temperatures and mperatures.	
		Cleanup	Xylene or MEK		
		<u>CURE TIME</u>			
		Substrate	Initial Set	Full Cure	
		70°F (21°C)	5-6 hours	36 hours	



**PACKAGING, ESTIMATING & HANDLING** 

Code Packaging

Product

## CE-160 Page 2 of 2 Pennchem<sup>™</sup> 97 Membrane

### **TYPICAL PHYSICAL PROPERTIES**

Property	Typical Value
Color	Beige
Density, ASTM C138	11.9 lb/gallon (1,426 kg/m <sup>3</sup> )
Shore D Hardness	50
Solids, mixed material	100%
Elongation, ASTM D412	125%
Maximum service temperature	160°F (71°C)

Pennchem 97 Membrane Kit		19687	2 gallon (7.5 L) kit			
Pennchem 97 Mem Pennchem 97 Mem		19688 19689	1.9 gallon (7.2 L) pail 499 gm bottle			
A 2 gallon unit consists of a 1.9 gallon pail of Part A resin and a 499 gm bottle of Part B hardener. Order Part A and part B separately for U.S. export.						
Theoretical Coverage	25.7 square feet per unit at 1/8-inch (3.2 mm) WFT 32 square feet per unit at 100 mils (2.54 mm) WFT					
Storage & Shelf Life	Maintain products in original packaging and sealed until ready for use. Estimated shelf life is 24 months when stored in a dry area at 70°F (21°C). Actual shelf life may vary with storage conditions.					
	If there is any question with respect to the quality of the components, check reactivity prior to use. For assistance consult with ErgonArmor.					
<u>SAFETY</u>						
Safety	Mixes and applications of this product present a number of hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and safety data sheets before using.					
Ventilation		Provide thorough air circulation during and after application until the material has cured when used in enclosed areas.				

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